Amendments

***In the Claims*:**

This listing of claims will replace all prior versions, and listings of claims in the application.

Cancel claims 1-17 without prejudice or disclaimer.

18. (New) An integrated turbogenerator system, comprising:

a turbine;

a compressor coupled to said turbine for rotation therewith, said compressor having an inlet portion and an outlet portion to receive air at said inlet portion and to generate compressed air at said outlet portion;

a combustor coupled to said compressor for combusting fuel and the compressed air therein to generate exhaust gas to drive said turbine;

a generator coupled to said turbine for rotation therewith to generate electric power; and

an electrically resistive element coupled to said generator and disposed in said compressor upstream of said outlet portion in the normal direction of airflow to selectively dissipate a portion of the generated power as thermal energy in the air channeled through said compressor to said outlet portion.

19. (New) An integrated turbogenerator according to claim 18, wherein said electrically resistive element is disposed in said inlet region of said compressor.

20. (New) An integrated turbogenerator according to claim 19, further comprising:

an air intake disposed in said compressor to channel air over the resistive element and into the compressor.

21. (New) An integrated turbogenerator according to claim 20, further comprising:

a filter disposed in said inlet portion of said compressor between said resistive element and said air intake to filter intake air prior to the air passing over and around said resistive element.

22. (New) An integrated turbogenerator according to claim 19, further comprising:

a controller coupled to said generator and to said resistive element to selectively supply a portion of the generated power from said generator to said resistive element.

23. (New) An integrated turbogenerator according to claim 22, further comprising a power converter coupled to and between said generator and said controller for supplying power from said generator to said controller.

24. (New) An integrated turbogenerator according to claim 22, wherein said generator supplies the generated power to a load, and wherein said controller selectively supplies a portion of the generated power from said generator to said resistive element in accordance with variations in the load.

25. (New) An integrated turbogenerator according to claim 24, wherein said controller controls the speed of said turbine in accordance with variations in the load.

26. (New) An integrated turbogenerator according to claim 22 or 24, wherein said controller controls the speed of said turbine in accordance with a temperature of said resistive element.

27. (New) An integrated turbogenerator according to claim 26, wherein said controller controls the speed of said turbine to maintain a temperature of said resistive element below a preselected value.

28. (New) An integrated turbogenerator according to claim 27, wherein said controller reduces the speed of said turbine in response to a reduction in the load and supplies at least a portion of generated power in excess of the load to said resistive element, the turbine speed being reduced at a rate selected to maintain a temperature of said resistive element below a preselected value.